



Patent  
Atty. Docket No. GEMS8081.180

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Gurr  
Serial No. : 10/707,170  
Filing Date : November 25, 2003  
Title : METHOD AND SYSTEM FOR MOVING TABLE  
MRI WITH PARTIAL FOURIER IMAGING  
Group Art No. : 2682  
Examining Attorney : Unknown

---

CERTIFICATION UNDER 37 CFR 1.8(a) and 1.10

I hereby certify that, on the date shown below, this correspondence is being:

**Mailing**  
deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

**37 CFR 1.8(a)**  **37 CFR 1.10**  
with sufficient postage as first class mail As "Express Mail Post Office to Addressee" Mailing Label No. \_\_\_\_\_

**Transmission**  
transmitted by facsimile to Fax No.: addressed to Examiner at the Patent and Trademark Office.

Date: 4-23-04

Lisa J. Chaney  
Signature

---

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §1.97/99**

Dear Sir:

In compliance with Applicant's duty of disclosure as set forth in 37 C.F.R. §1.56, listed on the attached equivalent to Form PTO-1449 are those patents, publications and other

**Inventor: Gurr**

**S/N: 10/707,170**

information known to the Applicant(s) which may be considered material to the patentability of the claims of the above-captioned application. **One copy of each reference is attached.**

This IDS supplements the IDS electronically filed on November 25, 2003, and the IDS filed December 1, 2003.

Applicant respectfully request that the documents listed on the attached equivalent to Form PTO-1449 be considered by the Examiner, that the references be made of record in the present application, and that an initialed copy of the duplicate equivalent to Form PTO-1449 be returned to the undersigned in accordance with MPEP 609.

Respectfully submitted,

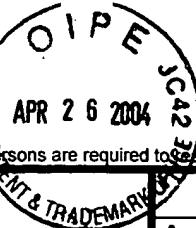


Kent L. Baker  
Registration No. 52,584  
Telephone 262-376-5170  
[klb@zpspatents.com](mailto:klb@zpspatents.com)

Date: April 23, 2004  
Atty. Docket No.: GEMS8081.180

**P.O. ADDRESS:**

Ziolkowski Patent Solutions Group, LLC  
14135 N. Cedarburg Rd.  
Mequon, WI 53097-1416  
262-376-5170



Substitute for form 1449B/PTO

**Complete if Known****INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT***(use as many sheets as necessary)*

Sheet 1 of 2 Attorney Docket Number GEMS8081.180

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite, No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------|---|----------------|
|                    |           | MCGIBNEY, G. et al., "Quantitative Evaluation of Several Partial Fourier Reconstruction Algorithms Used in MRI", Magnetic Resonance in Medicine, 1993, vol. 30, pp. 51-59.  |                |
|                    |           | BARKHAUSEN, J. et al., "Whole-Body MR Imaging in 30 Seconds with Real-Time True FISP and a Continuously Rolling Table Platform: Feasibility Study", Radiology, 2001, vol. 220, pp. 252-256.   |                |
|                    |           | FAIN, S. et al., "Floating Table 3D Isotropic Projection Imaging (FLIPR): Feasibility of a New Method for Temporally Resolved Imaging with Extended Superior/Inferior Coverage", XIII International Workshop on MRA, 2001, p. 17.                               |                |
|                    |           | LIANG, Z. et al., "Principles of Magnetic Resonance Imaging: A Signal Processing Approach", 2000, pp. 322-330, IEEE Press.  |                |
|                    |           | DIETRICH, O. et al., "Extending the coverage of true volume scans by continuous movement of the subject", Proc. Intl. Soc. Mag. Reson. Med, 1999, p. 1653.  |                |
|                    |           | CUPPEN, J. et al., "Reducing MR Imaging Time By One-Sided Reconstruction", Magnetic Resonance Imaging, 1987, vol. 5, No. 6, pp. 526-527.  |                |
|                    |           | JOHNSON, K. et al., "Total-Body MR Imaging in as Little as 18 Seconds", Radiology, 1997, vol. 202, pp. 262-267.   |                |
|                    |           | BRITtain, J. et al., "Incremental Table Motion for Increased Volume Coverage", Proc. Intl. Soc. Mag. Reson. Med, 2000, p. 1726.   |                |
|                    |           | HAACKE, E. et al., "A Fast, Iterative, Partial-Fourier Technique Capable of Local Phase Recovery", Journal of Magnetic Resonance, 1991, vol. 92, no. 1, pp. 126-145.  |                |
|                    |           | ZHU, Y. et al., "FUSION for Incremental Field-of-View Imaging", Proc. Intl. Soc. Mag. Reson. Med, 2001, p. 9.   |                |
|                    |           | NOLL, D. et al., "Homodyne Detection in Magnetic Resonance Imaging", IEEE Transactions on Medical Imaging, 1991, vol. 10, pp. 154-163.  |                |

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
to a collection of information unless it displays a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

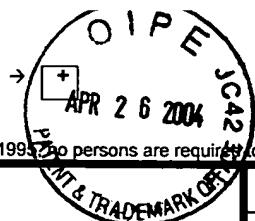
|  |              |    |   |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |
|--|--------------|----|---|--|--|---------------------------|------------|--------------------|------------|-----------------------------|------|-----------------------|------|----------------------|---------|-------------------------------|--------------|
| <p>Substitute for form 1449B/PTO</p> <p><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p> |              |    |   | <p><b>Complete if Known</b></p> <table border="1"> <tr> <td><b>Application Number</b></td> <td>10/707,170</td> </tr> <tr> <td><b>Filing Date</b></td> <td>11-25-2003</td> </tr> <tr> <td><b>First Named Inventor</b></td> <td>Gurr</td> </tr> <tr> <td><b>Group Art Unit</b></td> <td>2682</td> </tr> <tr> <td><b>Examiner Name</b></td> <td>Unknown</td> </tr> <tr> <td><b>Attorney Docket Number</b></td> <td>GEMS8081.180</td> </tr> </table> |  | <b>Application Number</b> | 10/707,170 | <b>Filing Date</b> | 11-25-2003 | <b>First Named Inventor</b> | Gurr | <b>Group Art Unit</b> | 2682 | <b>Examiner Name</b> | Unknown | <b>Attorney Docket Number</b> | GEMS8081.180 |
| <b>Application Number</b>  | 10/707,170   |    |   |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |
| <b>Filing Date</b>   | 11-25-2003   |    |   |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |
| <b>First Named Inventor</b>  | Gurr         |    |   |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |
| <b>Group Art Unit</b>  | 2682         |    |   |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |
| <b>Examiner Name</b>   | Unknown      |    |   |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |
| <b>Attorney Docket Number</b>  | GEMS8081.180 |    |   |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |
| Sheet  | 2            | of | 2 |  |  |                           |            |                    |            |                             |      |                       |      |                      |         |                               |              |

**Examiner Signature** \_\_\_\_\_ **Date Considered** \_\_\_\_\_

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SFND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

2

## Complete if Known

|                        |              |
|------------------------|--------------|
| Application Number     | 10/707,170   |
| Filing Date            | 11-25-2003   |
| First Named Inventor   | Gurr         |
| Group Art Unit         | 2682         |
| Examiner Name          | Unknown      |
| Attorney Docket Number | GEMS8081.180 |

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    |                       | MCGIBNEY, G. et al., "Quantitative Evaluation of Several Partial Fourier Reconstruction Algorithms Used in MRI", Magnetic Resonance in Medicine, 1993, vol. 30, pp. 51-59.  |                |
|                    |                       | BARKHAUSEN, J. et al., "Whole-Body MR Imaging in 30 Seconds with Real-Time True FISP and a Continuously Rolling Table Platform: Feasibility Study", Radiology, 2001, vol. 220, pp. 252-256.   |                |
|                    |                       | FAIN, S. et al., "Floating Table 3D Isotropic Projection Imaging (FLIPR): Feasibility of a New Method for Temporally Resolved Imaging with Extended Superior/Inferior Coverage", XIII International Workshop on MRA, 2001, p. 17.                               |                |
|                    |                       | LIANG, Z. et al., "Principles of Magnetic Resonance Imaging: A Signal Processing Approach", 2000, pp. 322-330, IEEE Press.  |                |
|                    |                       | DIETRICH, O. et al., "Extending the coverage of true volume scans by continuous movement of the subject", Proc. Intl. Soc. Mag. Reson. Med, 1999, p. 1653.  |                |
|                    |                       | CUPPEN, J. et al., "Reducing MR Imaging Time By One-Sided Reconstruction", Magnetic Resonance Imaging, 1987, vol. 5, No. 6, pp. 526-527.  |                |
|                    |                       | JOHNSON, K. et al., "Total-Body MR Imaging in as Little as 18 Seconds", Radiology, 1997, vol. 202, pp. 262-267.   |                |
|                    |                       | BRITTAINE, J. et al., "Incremental Table Motion for Increased Volume Coverage", Proc. Intl. Soc. Mag. Reson. Med, 2000, p. 1726.  |                |
|                    |                       | HAACKE, E. et al., "A Fast, Iterative, Partial-Fourier Technique Capable of Local Phase Recovery", Journal of Magnetic Resonance, 1991, vol. 92, no. 1, pp126-145.  |                |
|                    |                       | ZHU, Y. et al., "FUSION for Incremental Field-of-View Imaging", Proc. Intl. Soc. Mag. Reson. Med, 2001, p. 9.   |                |
|                    |                       | NOLL, D. et al., "Homodyne Detection in Magnetic Resonance Imaging", IEEE Transactions on Medical Imaging, 1991, vol. 10, pp.154-163.   |                |

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Please type a plus sign (+) inside this box

→ 

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

Approved for use through 10/31/2002. GMB 0001-0001  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |              |    |   |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |
|--|--------------|----|---|--|--|--------------------|------------|-------------|------------|----------------------|------|----------------|------|---------------|---------|------------------------|--------------|
| <p>Substitute for form 1449B/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p> |              |    |   | <p><b>Complete if Known</b></p> <table border="1"> <tr> <td>Application Number</td> <td>10/707,170</td> </tr> <tr> <td>Filing Date</td> <td>11-25-2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Gurr</td> </tr> <tr> <td>Group Art Unit</td> <td>2682</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown</td> </tr> <tr> <td>Attorney Docket Number</td> <td>GEMS8081.180</td> </tr> </table> |  | Application Number | 10/707,170 | Filing Date | 11-25-2003 | First Named Inventor | Gurr | Group Art Unit | 2682 | Examiner Name | Unknown | Attorney Docket Number | GEMS8081.180 |
| Application Number   | 10/707,170   |    |   |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |
| Filing Date  | 11-25-2003   |    |   |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |
| First Named Inventor   | Gurr         |    |   |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |
| Group Art Unit   | 2682         |    |   |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |
| Examiner Name  | Unknown      |    |   |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |
| Attorney Docket Number   | GEMS8081.180 |    |   |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |
| Sheet  | 2            | of | 2 |  |  |                    |            |             |            |                      |      |                |      |               |         |                        |              |

#### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231